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PAPINASHVILI, K.I.; LOMINADZE, V.P., red.; VAYTSMAN, A.I., red.;
NIKOLAYEVA, G.S., tekhn.red.

[Atmospheric processes in Transcaucasia and their connection with large-scale circulation processes above Eurasia]
Atmosfernye protsessy v Zakavkaz'e i ikh sviaz's makrotsirkuliatsionnymi protsessami nad Evraziei. Leningrad, Gid-

rometeoizdat, 1963. 183 p. (MIRA 16:8) (Eurasia--Atmosphere) (Transcaucasia--Atmosphere)

ORLOVA, Valentina Vladimirovna; FOKROVSKAYA, T.V., otv. red.;
VAYTSMAN, A.I., red.; ALEKSEYEV, A.G., tekhn. red.

[Western Siberia]Zapadnaia Sibiri. Leningrad, Gidrometeoizdat, 1962. 359 p. (Klimat SSSR, no.4) (MIRA 15:9)

(Siberia, Western-Climate)

SHCHERBAKOVA, Yelena Yakovlevna; POKROVSKAYA, T.V., otv. red.; VAYTSMAN, A.I., red.; BRAYNINA, M.I., tekhn. red.

[Eastern Siberia] Vostochnaia Sibir'. Leningrad, Gidrometeor. izd-vo, 1961. 300 p. (Klimat SSSR, no.5) (MIRA 15:1) (Siberia, Eastern—Climate)

GRUZA, Georgiy Vadimovich; PETROSYANTS, M.A., red.; VAYTSMAN, A.I., red.; SERGEYEV, A.N., tekhn. red.

[Large-scale turbulence in general atmospheric circulation] Makro-turbulentnost' v obshchei tsirkuliatsii atmosfery. Pod red. M.A. Petrosiants. Leningrad, Gidrometeorologicheskoe izd-vo, 1961.

(MIRA 14:10)

(Atmospheric turbulence)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210008-7"

ANAPOL'SKAYA, Liya Yevseyevna; POKROVSKAYA, T.V., otv. red.; VAYTSMAN,
A.I., red.; BRAYNINA, M.I., tekhm. red.

[Wind velocity conditions in the U.S.S.R.] Rezhim skorostei
vetra na territorii SSSR. Leningrad, Gidrometeor. izd-vo, 1961.
(MIRA 15:5)

(Winds)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210008-7"

BABKOV, Ivan Ivanovich, VAYTSMAN, A.I., red.; SOLOVEYCHIK, A.A., tekhn. red.; ERAYNINA, M.I., tekhn. red.

[Climate of the Crimea]Klimat Kryma. Leningrad, Gidrometeoizdat, 1961. 87 p. (MIRA 15:8)

(Crimea—Climate)

BALASHEVA, Yelena Nikolayevna; KARAUL'SHCHIKOVA, Nina Nikolayevna; SABININA Irina Georgiyevna; SEMENOVA, Ol'ga Aleksandrovna; KOZIK, S.M., red.; VAYTEMAN, A.I., red.; SERGEYLV, A.N., tekhn. red.

[Climatological description of Surkhan-Darya Province]Kli-maticheskoe opisanie Surkhan-Dar'ianskoi oblasti. [By]E.N. Balasheva i dr. Leningrad, Gidrometeoizdat, 1962. 114 p. (MIRA 15:10)

(Surkhan-Darya Province-Climate)

KOZIK, Stefan Mikhaylovich; MASHUKOV, P.N., kand. fiz.-mat. nauk, red.; VAYTSMAN, A.I., red.; BRAYNINA, M.I., tekhn. red.

[Calculation of the movement of avalanches]Raschet dvizheniia snezhnykh lavin. Pod red. P.M.Mashukova. Leningrad, Gidrometeoizdat, 1962. 74 p. (MIRA 15:9)

(Avalanches)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210008-7"

ORLOVA, Valentina Vladimirovna; POKROVSKAYA, T.V., otv. red.; VAYTSMAN, A.I., red.; ALEKSEYEV, A.G., tekhm. red.

[Climate of the U.S.S.R.]Klimat SSSR. Leningrad, Gidro-meteoizdat. No.4.[Western Siberia]Zapadnaia Sibir'. 1962. 359 p. (MIRA 15:8)

l. Leningrad. Glavnaya geofizicheskaya observatoriya. (Siberia, Western-Climate)

SERVICE CONTROLL OF THE PROPERTY OF THE PROPER

EYGENSON, Moris Semenovich[deceased]; SHNITNIKGV, A.V., prof., otv. red.; VAYTSMAN, A.I., red.; IVKOVA, G.V., tekhn. red.

MANDAMINERO DE DE COMPANIO DE LA COMPANIO DE COMPANIO DE COMPANIO DE COMPANIO DE COMPANIO DE COMPANIO DE COMPA

[Sun, weather, and climate] Solntse, pogoda i klimat. Leningrad, Gidrometeoizdat, 1963. 273 p. (MIRA 16:11) (Solar radiation)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210008-7"

EAYDAL, Mikhail Kharlampiyevich; VAYTSMAN, A.I., red.

[Long-range forecasting of the weather and climatic fluctuations in Kazakhstan] Dolgosrochnye prognozy pogody i kolebanii klimata Kazakhstana. Leningrad, Gidrometeoizdat. Pt.3. 1965. 361 p. (MIRA 18:12)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210008-7"

AVER'YANOV, A.G.; <u>VAYTSMAN, P.S.</u>; GAL'BERIN, Ye.I.; ZVEREV, S.M.; ZAYONCHKOVSKIY, M.A.; KOSMINSKAYA, I.P.; KRAKSHINA, R.M.; IIIKIOTA, G.G.; TULIMA, YU.V.

Deep seismic sounding in the transition zone between the continent of Asia and the Pacific Ocean during the International Goophysical Year. Izv. AN SSSR. Ser. geofiz. no. 2:169-184 F 161.

(MIRA 14:2)

1. Institut fiziki Zemli AN SSSR.
(Soviet Far East--Seismometry)
(Earth--Surface)

DAVID, Rudol'f Eduardovich, akademik (1887-1939); KULIK, M.S., otv. red.; VAYTSMAN, A.I., red.

[Selected works on agricultural meleorology] Izbrannye raboty po sel'skokhoziaistvennoi meteorologii. Leningrad, Gidrometeoizdat, 1965. 225 p. (MIRA 18:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for David).

VAYTSNIAN, V.III.

91-58-7-6/27

Dutikov, S.S.; Shevelev, A.A.; Vaytsman, V.M., Engineers AUTHORS:

and Vnukov, A.K., Candidate of Technical Sciences

Exchange of Experience (Obmen opytom). The Automated Oper-TITLE:

ation of Mills (Avtomatizatsiya raboty mel'nits).

Energetik, 1958, Nr 7, pp 19-20 (USSR). PERIODICAL:

In 1957, 5 drum ball mills (4 mills of "Sh-16" type and 1 ABSTRACT:

biconical mill of "ShK-25" type) were automated according to the design suggested by Yuzhnoye otdeleniye ORGRES (the "ORGRES" South Branch Office). The following equipment was utilized: electronic controllers of "ER-III" type on 2 mills and electomechanical direct feedback columns of the "Energodetal' " plant on 3 mills. Their structural details and operation are described. The first experimental service of this automated system proved its operational stability and wide control range, as well as easy maintenance.

The various requirements to be met for automating mills,

such as good dust system, continuous aeration etc. are Card 1/2

Exchange of Experience

91-58-7-6/27

outlined. The "dust level" automation of mills must guarantee a decrease in consumption of electric energy for the preparation of pulverized coal by 3 to 4 kwh per ton of milling. There are 2 diagrams.

1. Ball mills--Operation 2. Ball mills--Electronic controls

Card 2/2

VAYTSMAN, V.H., inzh.; VRUKOV, A.K., kand.tekhn.nauk; MARKIN, V.P., inzh.

Automation of the charging of fuel into ball mills. Elek.sta.29
no.3:85 Mr '58.
(Pulverizers)

VAYTSMAN, V.M., inzh.

Introduction of TP-13 boilers. Energetik 8 no.8:10-13 Ag '60.

(NIRA 13:10)

(Boilers) (Steam power plants)

VAYTSVAYG, N.K.

Koreiskaia narodno-demokraticheskaia respublika (Korean People's Democratic Republic) Moskva, Izd. Akad. nauk SSSR, 1954. 447 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954

BALEK, A. [Bélek, Alexej]; DANEK, S. [Daněk, Stanislav], inzh.; FOFF, A. [Foff, Arthur], inzh.; KOLVODA, Ya. [Kelvoda, Jan], doktor; SHMID, Y. [Schmid, Josef], inzh.; SHKYOH, I. [Škvor, J.], doktor; YAYTTS, A. [Waitz, Antonín], inzh.; ROMASHKIN, N.I. [translator]; YEKSHIN, G.K. [translator]; TKACHEVA, T.K. [translator]; OSTROUMOVA, V.S., red.; SEMENOVA, N.Kh., red.; KAPRALOVA, A.A., tekhn.red.

[General inventory of fixed assets in Czechoslovakia] General'naia inventarizatsiia osnovnykh fondov v Chekhoslovakii. Moskva, Gos. statist.izd-vo, 1959. 101 p. (MIRA 13:2) (Czechoslovakia--Inventories)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210008-7"

。 1985年 - 1987年 - 19

GROMADCHENKO, A., gorod shakhty, Rostovskoy oblasti; GAPONOV, S., predsedatel, gorod Rudnya, Smolenskoy oblasti; VAYTULEVICH, F., Leningrad; BONDAREV, A., predsedatel, Melovatskiy rayon, Voronezhskoy oblasti.

From the editor's mail. Voen.znan. 29 no.9:7 S '53.

(MLRA 6:12)

1. Rayonnyy orgkomitet Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya aviatsii (for Gaponov). 2. Rayonnyy orgkomitet Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya aviatsii (for Bondarev). (Military education)

VAFURIB. E. A.

Energy distribution of photoelectrons. 1. Oxygen-silver-cesium cathode. Yu. M. Kushmir, E. Λ. Vaiurib and V. P. Goncharov. J. Tech. Phys. (U. S. S. R.) 9, 2139-46(1939).—Current-voltage curves of 3 cathodes were detd. for various wave lengths). When the intensity of irradiation is adjusted so as to make the current strength at sath. independent of theλ, the curves appear to be shifted to higher voltages whenλincreases from 5000 to 10,500 λ. For the explanation it is suggested that, with increasing λ, the relative no. of electrons which cannot leave the cathode without an external field rises as also does the intensity of the external field required.

J. J. Bikerman

- CONTROL OF THE PROPERTY OF T

MILLER, T. [Millers, T.]; KARLSON, K. [Karlsons, K.]; VAYVAD, A. [Vaivads, A.]

Frost resistance of carbonated sand-lime products with unslaked dolomitic lime [with summary in English]. Vestis Latv ak no.12: 35-40 '61.

1. Akademiya nauk Latviyskoy SSR, Institut khimii

KONSTANT, 2.A.; VAYVAD, A.Ya. [Veivads, A.]

Device for measuring X-ray petterns. Zev.lab. 30 no.4:439-440 '64.

1. Institut khimii AN Latviyskoy SSP.

(MIRA 17:4)

EYDUK, Yu.Ya. [Eiduks, J.]; VAYVAD, A.Ya. [Vaivads, A.]; FREYDENFEL'D, E.Zh. [Freidenfeld, E.]

Physicochemical properties of - and - calcium sulfate semihydrates. Izv.vys.ucheb.zav.; khim.i khim.tekh. 2 no.6:920-925 159. (MIRA 13:4)

1. Bishskiy politekhnicheskiy institut. Kafedra neorganicheskoy khimicheskoy tekhnologii.
(Calcium sulfate)

VAYVADE, A. [Vaivade, A.] (Riga); LEPIN', L. [Liepina, L.] (Riga)

Effect of temperature on the speed of aluminum oxidation in water and water solutions of neutral salts. I.Corrosion of aluminum in potassium chloride solutions under static conditions. In Russian. (To be continued) Vestis Latv ak no.5:89-96 '60. (EEAI 10:7)

1. Akademiya nauk Latviyskoy SSR, Institut khimii.
(Aluminum) (Solutions) (Water) (Salts)
(Corrosion and anticorrosives) (Potassium chloride)

VAYVADE, A.[Vaivade, A.](Riga); LEPIN', L.[Liepina, L.](Riga)

Effect of temperature on the speed of aluminum oxidation in water and water solutions of neutral salts. II. Corrosion of aluminum in potassium sulfate solutions under static conditions. Vestis Latv ak no.6:81-84 160.

(EEAI 10:9)

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1. Akademiya nauk Latviyskoy SSR, Institut khimii.

(Aluminum) (Potassium sulfate) (Water) (Salts) (Corrosion and anticorrosives)

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SOURCE: Ref. zh. Khimiya, Abs. 1B434

AUTHOR: Berzin', R. Ya.; Sedmal, U. Ya.; Vayvad, A. Ya.

TITLE: Physicochemical studies on aluminosilicophosphate glass. II. Crystallizing ability of glass of the system RO - alumina - silica - phosphorus pentoxide

CITED SOURCE: Izv. AN LatvSSR, Ser. khim., no. 6, 1963, 663-669

TOPIC TAGS: glass, glass crystallization, aluminosilicate glass, aluminophosphate glass, magnesia, calcium oxide, phosphorus pentoxide, calcium phosphate, aluminum phosphate

TRANSIATION. The authors studied the arrestallizing ability of glass of the system MgO - Car - MgOg arrived to the system of the

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the crystallization of phosphates. For Par	these types of glass results mainly in the separate t I, see RZhKhim, 1963, 6M72. Authors' abstrac	ion of Ca and Al
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EWT(m)/EWP(j) IJP(c)ACC NR: AP6015677 (A) SOURCE CODE: UR/0413/66/000/009/0077/0077 INVENTOR: May, L. A.; Vayvad, A. Ya.; Lagzdyn', E. A.; Tserin' sh, O. ORG: none TITLE: Preparation of emulsion of organosilicon resins. Class 39, No. 181298 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 77 TOPIC TAGS: emulsion, organosilicon resin ABSTRACT: This Author Certificate introduces a method of preparing emulsions of organosilicon resins by hydrolysis of alkyl(aryl)chlorosilanes with a mixture of water and solvents. To enhance water resistance and antiadhesive properties, both polar and nonpolar organic solvents are suggested. The polar organic solvents include acetone, acetonitrile, and alcohol, while the nonpolar solvents include toluene, carbontetrachloride, and 1, 2-dichloroethane. [Translation] [LD] SUB CODE: 11/ SUBM DATE: 10Jun64/ Card 1/1 WW UDC: 678. 84. 02;66. 093. 8:547. 1' 113' 128

- 1. LIYEPINA, L.: OSE, Z.: STIPRAYS, A.: VAYVADE, A.
- 2. USSR (600)
- 4. Corrosion and Anticorrosives
- 7. Colloid-chemical phenomena on the surface of metals and inhibition of corrosion of salt solutions. Latv. PSR Zin.Akad.Vestis, no. 8, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

VAIVADS, A. and LIEPINA, L.

"Colloid-Chemical Phenomena on Metal Surfaces, and the Inhibition of Corrosion in Salt Solutions," Part 3, Latv. PSR Zin. Akad. Vestst, No.2, 1951

Chemical Abstracts Vol. 48 No. 5 Mar. 10, 1954 Inorganic Chemistry	Basic salts of aluminum (according to data of potentiometric direction). P. L. Lopin and A. Va. Valvado (1747-1748). State Univ. Rivel. Par. Fiz. Raim. 27, 217-32 (1953).—Solns of Alch. AlCOD, and Al(SO) of various concus, were threated with KOH soln at the time of preparated after parasits of egos up to 15 days. The fittation rates for the chloride and entrate whos become more product upon agong which there for the suffer do not change with tone. The changes are consed by formation of various polyhydroxy, polyaquo, and similar complexes. I. W. Loweberg, Jr.
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VAYVADE, A. Ya. In Latvian

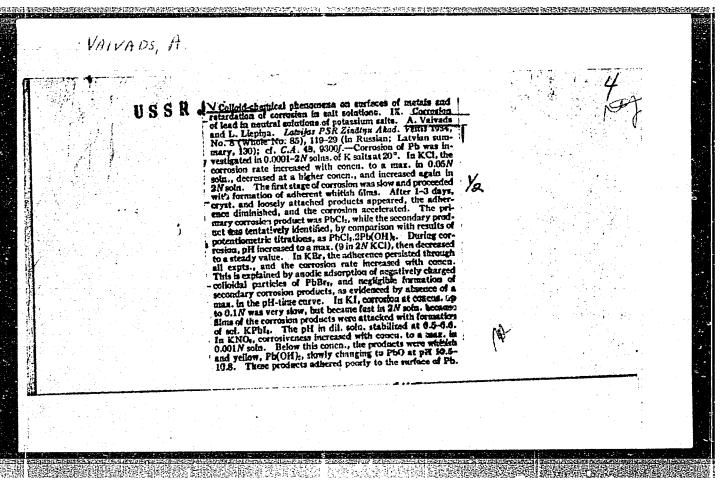
VAYVADE, A. Ya. -- "Variation of the pil and its Significance in the Corrosion of Metals in Salt Solutions." Latvian State U, 1954. (Dissertation for Degree of Candidate of Chemical Sciences) In Latvian

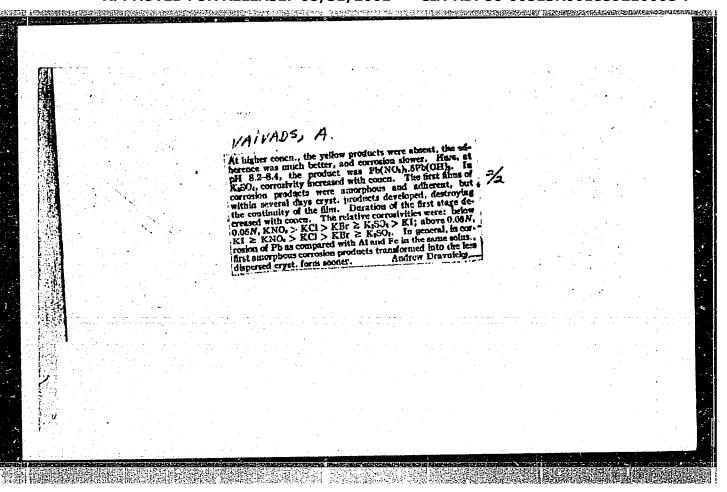
SO: Izvestiva Ak. Nauk Latvivskov SSR, No. 9, Sept., 1955

NAI VADE A

Collected observed phenomena on the surfaces of metals and retardation of corrosion in salt colutions. VIII. Corrosion of aluminum and iron as a function of the concentration of colution. L. Lleping, A. Vnivade, Z. Osis, and A. Stiprals (Inst. Chem. Acadesia/texas.) S.R. Ping, Latvia). Latvias PSR Zieding Akad. Vetis 1954. No. 3 (Whole No. 80), 107-13 in Russian); cf. C.A. 47, 112-3 S.B. Ping, Latvias No. 80, 107-13 in Russian); cf. C.A. 47, 112-3 S.B. Ping, C.A. 47, 112-3 S.B. Pin

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Colloid chemical phenomena et surfaces of metals and USSR retardation of correspon in salt solutions. XI Kinetics o from correston in solutions of chlorides and sulfates o retards from of occupation in salt estimans. Al. Kinetics of the correston in solutions of informer and sulfatos of alkalia and alkalian earth metals under static conditions. In the condition of the conditions of the conditions of the conditions of the conditions. Also are the conditions of the conditions of the conditions of the common steel immersed at 20° in H₀0 and in 0 0001-2A solutions, of several electrolytes was observed for periods of several electrolytes was observed for periods of several electrolytes was observed for periods of several weeks. Wt. losses and the auth. If products adhering (I) to the specimens were deed. The initial corrosion rate decreased after 1-2 days of corrosion and remained const for the rest of the tests. In KCI NaCI, KrSO₁, and MgSO₄, the rate for the tests. In KCI NaCI, KrSO₁, and MgSO₄, the rate for the tests. In KCI NaCI, KrSO₁, and MgSO₄, the rate for the tests of the tests of a the cange of the rate decreased with concur. The pH of solution in all cuses increased rapidly during the tests by 0.5-1 0 pH units, and then stabilized at 6.0.7 0. However, in Mg and Ca salt solution above 0.0° V, pH decreased and stabilized at 0.0. In the products of corrosion, FeiO, (II) and reFeOOH (III) are found. Amts, of II in products decreased with concus, of electrolytes. The pH of the solution during the corrosion corresponded to the stability region of III. Since III forms at some distance from the steel surface, the degree of retardation of corrosion by this product is relatively low. The adherent films of III are built up by electrophoresis of colloid particles of III; the particles are positively charged, as was shown by dyeing expts and therefore they migrate towards and post in the contained MgCPoO h. This may explain the peculiar pH change in corrosing soins of MgCls. Ca ferrite was not found in the products of coaloid in CaCh.

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VAYVADE, A. YA.

USSR/Chemistry

Card 1/1

Author

Lepin', L. K. and Vayvade, A. Ya.

Title

Dependence of the rate of iron corrosion upon the pH of the salt (KC1) solution

Periodical

: Zhur. Fis. Khim. 28, Ed. 3, 435-439, March 1954

Abstract

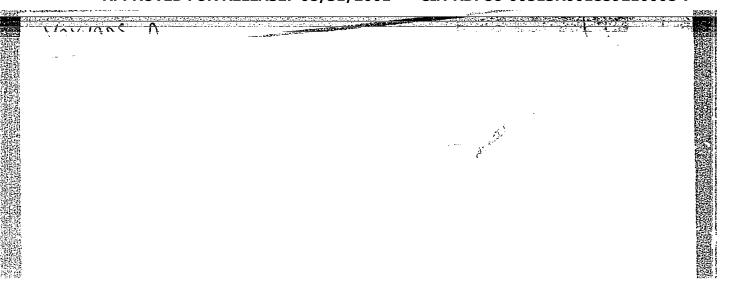
the rate of iron corrosion in KCl solutions was investigated in static conditions at initial pH values of from 3.0 to 9.0. The rate of iron corrosion under such conditions and during a constant salt concentration is determined by the stationary pH value which in the solution. In all solutions with a pHo of 4-9 the pH value is everywhere 6.8 - 6.9 which corresponds to the region of stability of ferric hydrozide which is the basic product of iron corrosion. The rate of corrosion in such solutions is uniform. A reduction in the stationary pH value is followed by a change in rate of corrosion. Ten references; 1 English since 1924. Table, graph.

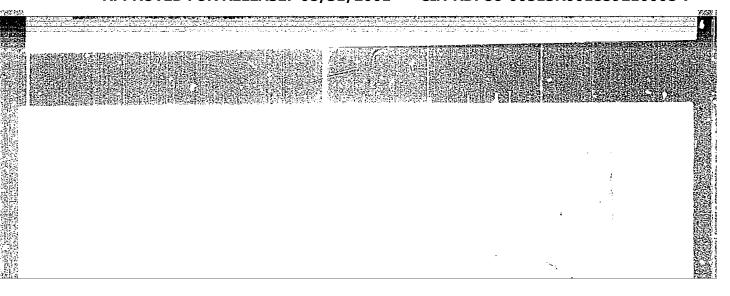
Institution

Acad. of Sc. Latvian-SSR, Institute of Chemistry, Riga

Submitted

: June 1, 1953





USSR.

/9002 Relation at the Corrosson Rate of from 16 the pH of V Solution, and the Passivation of the Metal in Alkalia Solution, 2 avisimos? chorosi kurrozli sheleza of pH rastwork. The statement of the Solution and Solution with rastworkh. The sale K Lepin', A Ya Varvade, and Z r Oshis Zhurou extension a Khimi, v 20, 160 2 150 1455 p 150-155 c 1 1 1 c c continuous at the sale for the

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SOV/137-58-11-23024

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 170 (USSR)

AUTHORS: Vayvade, A. Ya., Lokenbakh, A. K., Lepin', L. K.

TITLE: Apparatus for Investigating Corrosion in Aqueous Solutions of Salts

at Elevated Temperatures (Ustanovka dlya issledovaniya korrozii v

vodnykh rastvorakh soley pri povyshennykh temperaturakh)

PERIODICAL: Izv. AN LatvSSR, 1958, Nr 2, pp 111-114

ABSTRACT: Existing apparatus accomplished the regulation of temperature with

a $\pm 1^{\circ}$ C precision but did not ensure natural access of O_2 . The authors propose to use a thermostat consisting of a cylinder with an outer container of steel bronze and an inner one of Cu. Between them is a layer of asbestos fiber 50 mm thick. A double water-cooled lid acts as a cooling element and prevents evaporation of the heat carrier (water). Heating is achieved by a 4.5-kw tubular electric heater; the temperature is regulated by a magnetic contact thermometer and an electromagnetic relay with a $\pm 0.15^{\circ}$ C precision in the 20-95° range; the heat carrier is stirred with a centrifugal pump. Graduates serving as corrosion-testing devices are inserted into openings in the lid of

Card 1/2 the thermostat. To prevent evaporation of the solution a finger-shaped

SOV/137-58-11-23024

Apparatus for Investigating Corrosion in Aqueous Solutions of Salts (cont.)

water-cooled cooling element is used which rests on the graduate by means of four pins. This ensures a free access of O_2 . The specimen is suspended by a glass hook from the end of the finger-shaped cooling element. The area of the specimen is 7 cm^2 , the volume of the solution is $50 \text{ m} \ell$. The thermostat has 260 points.

Card 2/2

CIA-RDP86-00513R001859210008-7 "APPROVED FOR RELEASE: 08/31/2001

5(4) AUTHORS:

sov/76-33-2-19/45 Lepin', L. K., Vayvade, A. Ya., Ochis, Z. F.

TITLE:

Oxidation Kinetics of Iron in Aqueous Solutions of the Salt Mixtures $(KC1(K_2SO_4)+K_3PO_4(K_2HPO_4,K_2CO_3))$ (Kinetika okisleniya

zheleza v rastvorakh smesey solcy ($KCl(K_2SO_1)$ +

+K3PO4(K2HPO4,K2CO3)))

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2,

pp 357 - 366 (USSR)

ABSTRACT:

On the basis of observations in previous papers (Refs 1-6) it can be assumed that the prevention of iron corrosion in neutral salt solutions of alkali metals (chlorides, sulfates) occurs through an electrophoretic blocking of the cathodic segments of the metal surface by the positively charged γ -FeO(OH) particles. This assumption is corroborated by the determinations of the electrode potential of iron (Refs 6,7). The iron oxidation in carbonate and phosphate solutions of the alkali metals is nevertheless hindered by negatively charged $\alpha\text{-Fe}(OH)$ particles and this can finally lead to a passivation of the metal surface (Refs 2-6). For this reason it seemed interesting to carry out investigations

Card 1/3

Oxidation Kinetics of Iron in Aqueous Solutions of the SOV/76-33-2-19/45 Salt Mixtures [KCl(K_2 SO₄)+ K_3 FO₄(K_2 HPO₄, K_2 CO₃)]

with mixtures of the above mentioned salts. A few important papers concerning this matter are given, among which are those by I.Shtern, Ts. Gul'yanskaya and K.Nekrasov (Ref 11), M. A. Rozenberg and Ye. I. Pogorel'skiy (Ref 13), I. L. Rozenfel'd (Ref 14), and others (Refs 8-10, 12), and it is found that the prevention of corrosion must depend upon the proportional amount of the salt components. For this reason the kinetics and the character of the iron corrosion were investigated for solutions of KCl, K2SO4, K2HFO4, $K_2^{PO}_4$ and $K_2^{CO}_3$, and binary solutions of these salts at 20°C. For these studies steel 10(C - 0.13%, Si-0.28%, Mn-0.55%, P - 0.036%, S - 0.042%, the rest Fe) was used. It was observed that an increase in the phosphate or carbonate concentration (Figs 3-5) with a constant concentration of KCl or K2SO4 (under 1.0 n) accelerates the corrosion at the beginning, then this effect passes through a maximum and fades with a ratio of the inhibitor to the salt of 5(10): 1 to exhibit a passivating effect. At concentrations

Card 2/3

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Oxidation Kinotics of Iron in Aqueous Solutions of the SOV/76-33-2-19/45 Salt Mixtures $\left[\text{KCl}\left(\text{K}_{2}\text{SO}_{4}\right)+\text{K}_{3}\text{PO}_{4}\left(\text{K}_{2}\text{HPO}_{4},\text{K}_{2}\text{CO}_{3}\right)\right]$

of KCl>1.0 n no maximum appears and the corrosion is not completely inhibited. It is assumed that with small salt concentrations an inhibition of the corrosion occurs according to the above assumption, by γ -FeO(OH) particles, while at higher concentrations of the inhibitor negative particles block the anodic segments. The observed maximum on the corrosion-concentration curves is explained in terms of an over-charging of the particles, which block the metal surface. There are 6 figures, 3 tables, and 17 references, 12 of which are Soviet.

ASSOCIATION:

Akademiya nauk Latv. SSR, Institut khimii (Academy of

Sciences Latv. SSR, Institute for Chemistry)

SUBMITTED:

July 10, 1957

Card 3/3

C NR: AP6002551 (A)	SOURCE CODE: UR/0286/65/000/023/0047/0047
THORS: Laukevits, Ya. Ya.; vaner, L. Yu.; Vayvad, A. Y	May, L. A.; Dreymanis, Ya. A.; Tutere, A. P.; Ya.; Katkevich, A. K.
G: none	74h
TLE: Method for producing s	surface-active silicone polymers. Class 39.
176683 7 Tannounced by Inst	titute of Chemistry, Academy of Sciences Latvian SSR
institut khimii Akademii nauk	k Latviyskoy 85R); Contral Structural Bureau For
Iministration of the Chemical	l and Silicate-Ceramic Industry Sovnarkhoz, Latvian rskoye byuro upravleniya khimicheskoy i silikatno-
ramicheskov promyshlennosti	sovnarkhoza Latviyskoy SSR)
URCE: Byulleten' izobreteni	iy i tovarnykh snakov, no. 23, 1965, 47
PIC TAGS: silicone, surface	e active agent, polymerization, esterification
STRACT: This Author Certifi	icate presents a method for producing surface-active
lideana nalimonálhy agterific	cation with alcohols and subsequent hydrolysis and
nermal condensation polymeriz	ration of a mixture of silicons monomers. To extend
	ŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ
rd 1/2	UDC: 678 84:66.093.8

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	and decrease the cost of the ra silicon tetrachloride is taken produced with alcohols having m		chlorosilane with esterification is
i	SUB CODE: 07, 11/ SUBN DATE: 0	eJu164	
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	Card 2/2 195		

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IYEVII 'SH, A.F. [Ievin's, A.], glav. red.; EYDUK, Yu.Ya. [Fiduks, J.], zam. glav. red.; VAYVAD, A.Ya. [Vaivads, A.], red.; KUKURS, O.K., red.; MAKSIMOVA, U.S., red.; UFITE, A.Yu., red.; DYMARSKAYA, O., red.

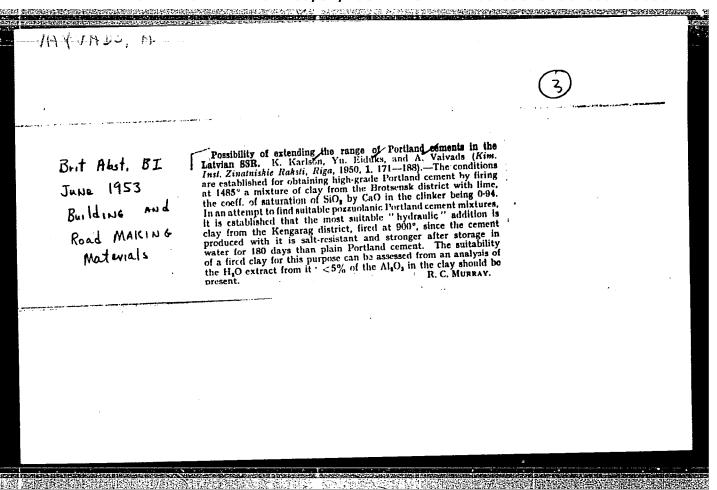
[Glazes, their production and application] Glazuri, ikh proizvodstvo i primenenie. Riga, Izd-vo AN Latviiskoi SSR, 1964. 249 p. (MIRA 18:4)

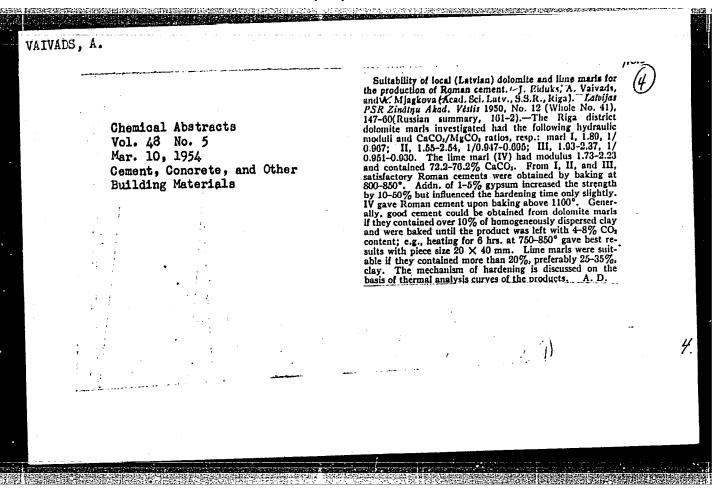
l. Latvijas Padomju Socialistiskas Republikas Zinatmu Akademija. Kimijas instituts.

VAYVAD. Al'bert Yakovlevich [Vaivads, A.]; GOFMAN, Boris Ernestovich [Hofmans, B.]; KARLSON, Karl Petrovich [Karlsons, K.]; TEYTEL'-BAUM, A. [Teitelbaums, A.], red.; BOKMAN, R. [Bokmans, R.], tekhn. red.

[Dolomitic binders] Dolomitovye viazhushchie veshchestva. Riga, Izd-vo Akad.nauk Latviiskoi SSR, 1958. 258 p. (MIRA 14:12) (Dolomite) (Binding materials)

VADS, A.			
••			
Brit Abs B1 June 1953	1	•	· • • • • • • • • • • • • • • • • • • •
			!
Building and road- making materials	•	(5)	di S
		mal	**
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	Use of gypsum quarry wastes as a source of bonding agents. Yu. Eideks, J. Yaivkiis, A. Apinis, and B. Holman (Kim. Inst. Zinatnishie Raksti, Riga, 1950, 1, 5-33).—The wastes contain Zinatnishie Raksti, Riga, 1950, 1, 5-33, of dolomite, and 12-20%		
4	46-65% of CaSO, 2H ₂ O, 15-33% of dolomite, and 12-20%	•	
	optimum mechanical properties by calcination at 750—850° with optimum mechanical properties by calcination at 750—850° with	:	•
	1% of NaHSO, +5% of CaO, Al ₂ O ₃ +2CaO, SiO ₃ . CaSO ₁ with small quantities of CaO, Al ₂ O ₃ +2CaO, SiO ₃ .		
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- 1. EIDUKS, J.: VALVADS, A.: PILSKALNE, A.
- 2. USSR (600)
- 4. Latvia Clay
- 7. Adsorption properties of various clays of the Latvian S.S.R. Latv. PSR Zin. Akad. Vestis 2, 1951.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

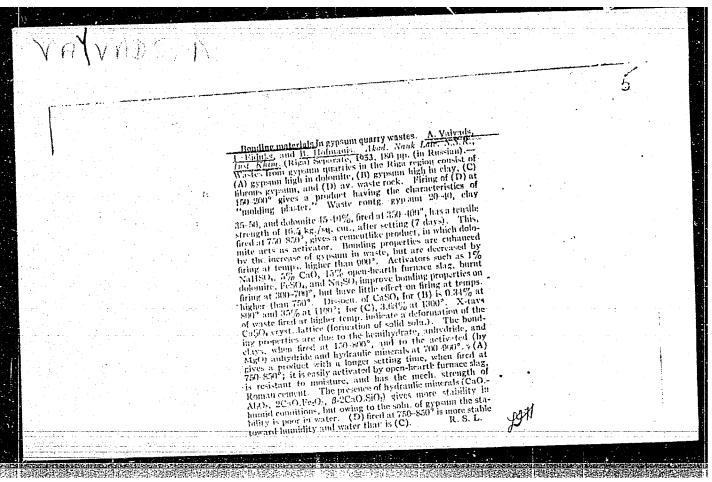
- 1. EYDUKS, J.; VAYVADS, A.; CIRULIS, Fr.
- 21. USSR 600
- 4. Paper Industry
- Fillers for paper from local raw materials, Latv. PSR Zin. Akad. Vestis, No. 9, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

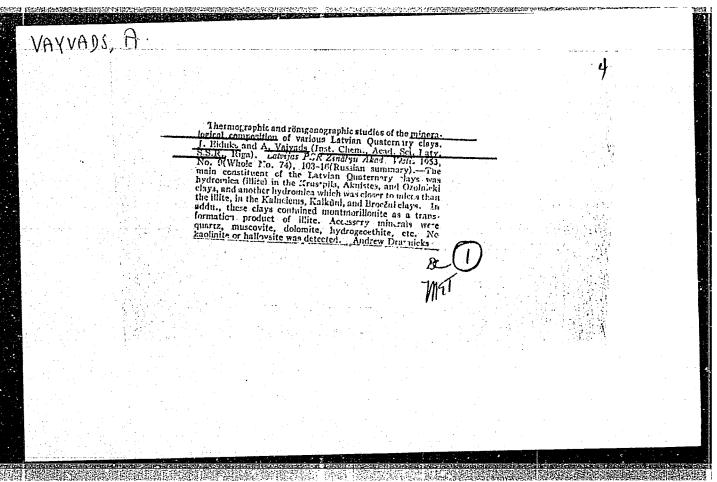
VAYVAD, A. Ya. In Latvian

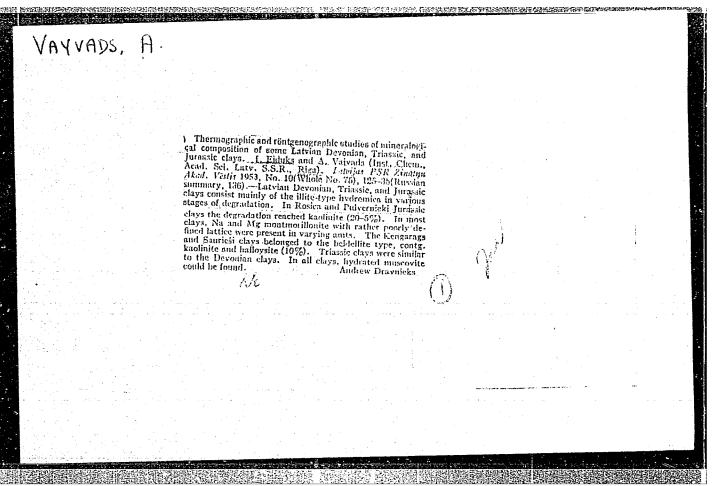
VAYVAD, A. Ya. — "Investigation of the Physicochemical and Technical Characteristics of Burnt Gysums Containing Dolomite and Clay." Latvian State U, 1953. In Latvian (Dissertation for the Degree of Candidate of Chemical Sciences)

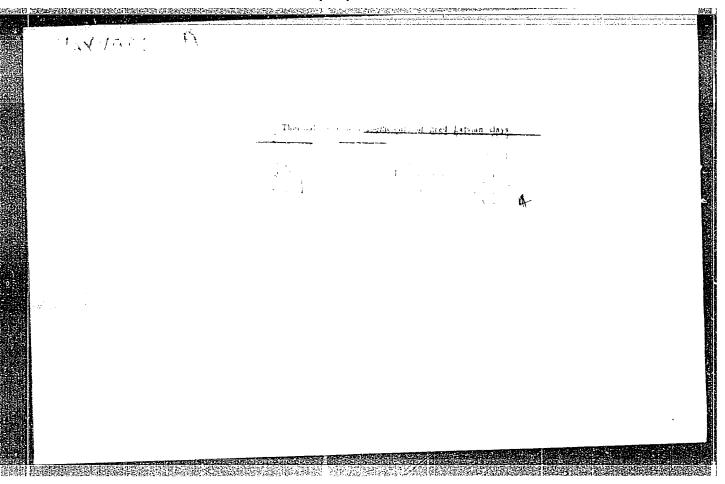
SO: Izvestiya Ak. Nauk Latvivskov SSR, No. 9, Sept., 1955

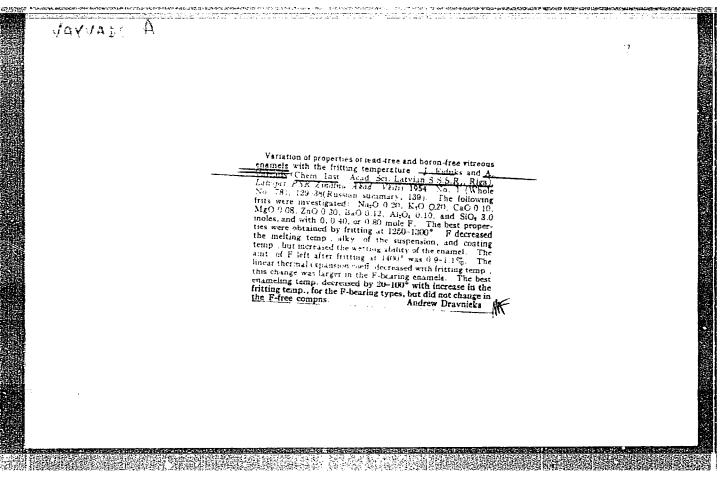


	Production of new mortar binders from waste of gypsum
	mines under industrial conditions. J. Edutos, A. Varios AT and B. Holmanis. Latvijos PSR Zindiqu Akad. Varios 1. Advirola No. 60) 91-6/Russian summary, 90-
	7).—Waste from gypsum mines contained CaSO _{1.} 2H ₁ O 67, dolomite 13.1, and clay 19%. In gypsum stills, at 100- 80°, the waste gave a product conforming to specifications
	for the first grade plaster quarty gypsint. In
	properties improved with storage. In the lime oven at 1000-
et ger	ment, with Cas 1.11, free Cao 14.9, and the lags of vol. change, The presence of Cas caused nonuniformity of vol. change, This provided by storage or by addit, of 0.5-1.0%
	FeSO. Andrew Dravnieks

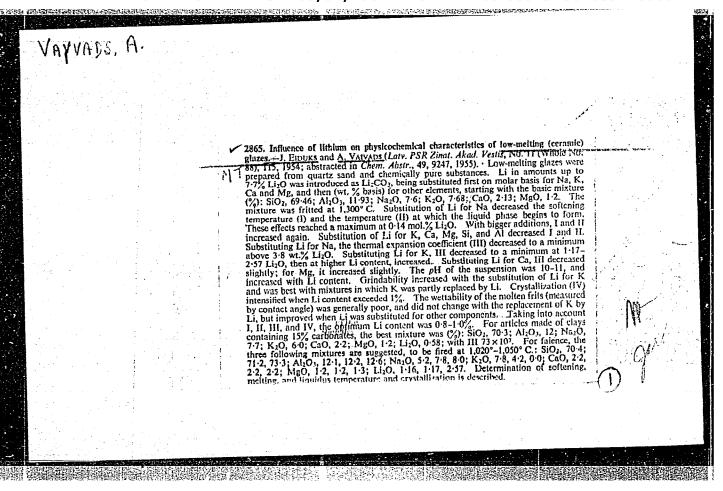


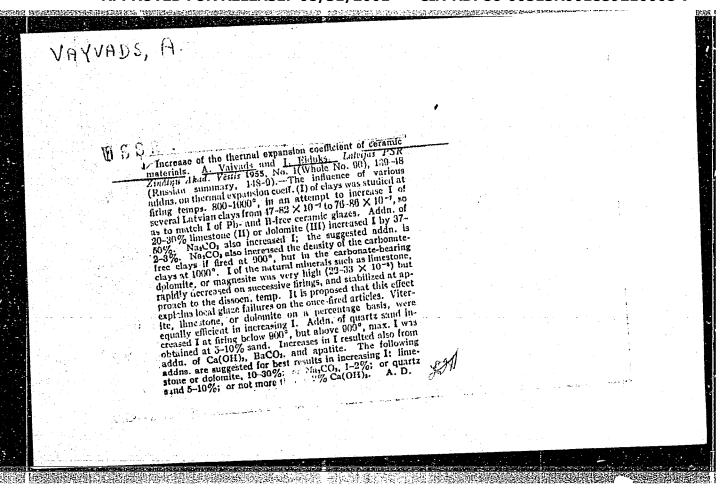


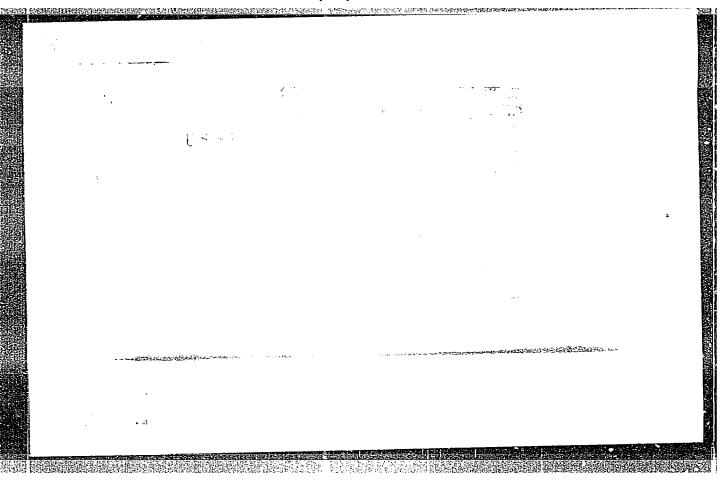




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VALTI - TITLE

USSR/Cosmochemistry - Geochemistry. Hydrochemistry, D

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61317

Author: Vaivads, A., Upite, A.

Institution: None

Title: Investigation of Mineralogical Composition of Clays by the Method

of Dyeing

Original

Periodical: Latvijas PSR zinatnu akademijas Vestis, Izv. AN Latv SSR, 1956,

No 2, 127-154; Latvian; Russian resumé

Abstract: None

Card 1/1

CIA-RDP86-00513R001859210008-7 "APPROVED FOR RELEASE: 08/31/2001

CONTRACTOR OF THE PROPERTY OF

VAYYAD, A. YH

I-10 USSR/Chemical Technology - Chemical Products and

Their Applications - Silicates. Glass.

Ceramics. Binders.

: Ref Zhur - Khimiya, No 3, 1957, 9059 Abs Jour

: Hofman, B.E., Vayvad, A.Ya., and Author

Karlson, K.P.

Academy of Sciences Latvian SSR Inst

: Dolomitic Roman Cement of Improved Quality Title

: Izv. AN LatvSSR, 1956, No 4, 119-138 Orig Pub

: A method has been developed for improving the Abstract

strength of Roman cement (RC) by the addition of optimum amounts of gypsum dihydrate (8%) and of soluble anhydrite. The addition of 0.5% anhydrite results in an increase of approximately 50% in the strength of RC. When the RC is mixed with hydrated gypsum, the

Card 1/3

USSR/Chemical Technology - Chemical Products and Their Applications - Silicates. Glass. Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 9059

strength of the former is increased 25-50%. Furthermore, the addition of gypsum eliminates inequalities in the expansion of the cement. A method for the production of gel-type cement according to the Vurnazo method has been developed and is based on the utilization of the water-absorbing properties of MgO. Cements prepared by this method show a 50-100% gain in strength over ordinary RC. The optimum amount of gel is 15%. Maximum strength of the mortars is obtained by the addition of gypsum dihydrate (0.8% of the weight of the cement). It is reported that pilot plant experiments have been carried out to investigate the regulation

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I-10

USSR/Chemical Technology - Chemical Products and

Their Applications - Silicates. Glass.

Ceramics. Binders.

: Ref Zhur - Khimiya, No 3, 1957, 9059 Abs Jour

of the setting time of dolomitic RC by wetting calcined marls with 1-2% water; however, such treatment results in a marked reduction in the

strength of the RC.

Card 3/3

CIA-RDP86-00513R001859210008-7" APPROVED FOR RELEASE: 08/31/2001

Vaivads, A.

USSR /Chemical Technology. Chemical Products and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31512

Author : Vaivads A., Upite A., Kukurs O.

Inst : Academy of Sciences Latvian SSR

Title : Zirconium-Containing Opaque Glazes for

Building Ceramics

Orig Pub: Laty. PSR zinatnu Akad. vestis, Izv. AN LatvSSR,

1956, No 8, 121-130

Abstract: A study of the effect of Zr on properties of

boron-free and lead-free glazes, and also on

the properties of a glaze containing small

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USSR /Chemical Technology. Chemical Products and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31512

amounts of Pb and B, has revealed that Zr decreases the coefficient of thermal expansion of the glaze (a.4.2.4cc), increases its chemical stability and melting point. Opacity of the glaze increases with increasing Zr-content and decreases with increasing melting point of the glaze. PbO in amounts of 10-30% lowers the melting point of Zr-glazes by 45-85°, without affecting the a_{η} -400. In the presence of PbO luster and evenness of the glaze are enhanced, but the opacity is decreased. Glazes containing 30% PbO are transparent. An increase of the amount of Zr, in glazes containing B, causes an increase in chemical stability and lowers the

Card 2/3

USSR /Chemical Technology. Chemical Products and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31512

refractive index and a 20-400 of the glaze. Mineralogical and roentgenographic analyses have shown that opacity of Zr-glazes is due to a separation, from the liquid phase, of ZrS104 and ZrO2 crystallites.

Card 3/3

VATVADS, A. (Riga); KUKURS, O. (Riga); EIDUKS, J. (Riga)

Thermography of easily fusible glaze. Vestis Latv ak no.9:107-118

1. Latvijas PSR Zinatnu akademija, Kimijas institutus. (Glazes)

159.

THE TOTAL SECTION AND ASSESSMENT OF THE PROPERTY OF THE PROPER

MILLERS, T. (Riga); KARLSONS, K. (Riga); VATVADS, A. (Riga)

Usefulness of domestic dolomite quicklime for production of lime-sand blocks. III. Carbonization of solutions of Ieriki and Ape dolomite quicklime. Vestis Latv ak no.10:97-106 *59. (EEAI 9:10)

Latvijas PSR Zinatnu akademija, Kimijas instituts (Latvia--Dolomite) (Latvia--Lime)

VAYVANTSTEV, D.

29654

boriba ea uskoryeniye oborota sevedstv 1 Raevitiye

khoeraschyeta. Oprt lyeningr. Eavoda (Elyektrosila)

im. S. M. kirova voprosy ekonomili, 1949 No. 7, s. 16-96

SOL LETOPIS' NO. 40

YVANTSEV,	P.	15052
	USSR/Electric Equipment 4406. Jan 1947	
	"Mobilization of Intra-plant Resources," P. Vay- vantsev, 22 pp.	
	"Sov Finansy" Vol VIII, No 1	
	Relates experience of Elektrosila electric machinery plant in Lemingrad in eliminating losses by making full use of all plant resources. Concerted effort made to collect all outstanding accounts and to make sales only to enterprises guaranteeing payments when due.	
	1. C 15652	

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210008-7"

LESIN'SH, K.P. [Lesins, K.], kand.veter.nauk, otv.red.; VAYVARINA, G.F. [Vairarina, G.], kand.veter.nauk, red.; IAZDYNYA, M.A. [Lazdina, M.], red.; TSINOVSKIY, Ya.P., doktor biolog.nauk, red.; TEYTEL'RAUM, A.,

[Problems in parasitology in the Baltic republics; materials] Voprosy Parazitologii v pribaltiiskikh respublikakh; materialy. Riga, Izd-vo Akad.nauk Latviiskoi SSR, 1961. 292 p. (MIRA 15:5)

1. Nauchno-koordinatsionnaya konferentsiya po problemam parazitologii v Pribaltike. 2d, Riga, 1960. 2. Institut biologii AN Latv.SSR (for Lesin'sh). 3. Latviyskaya sel'skokhozyaystvennaya akademiya (for Vayvarina). 4. Sanitarno-epidemiologicheskaya stantsiya Ministerstva zdravookhraneniya Latviyskoy SSR (for Lazdynya).

(BALTIC STATES--PARASITOLOGY)

USSR / Diseases of Farm Animals. Diseases Caused by Helminths.

R-2

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7326

Author : G. F. Vayvarinya Inst

: Not Given Title

: Anatomy and Morphology of Probstmayria vivipara and its Distribution Among Horses of the Latvian SSR.

Orig Pub: Latv. lauksaimniecibas akad. taksti. Tr. Latv. s-kh. akad. 1956, vyp. 5, 241-246.

Abstract: Provides a description of <u>Probstmayria vivipara</u>, based on a large amount of <u>material obtained</u> from horses of the Latvian SSR. "Probstmayriosis" has been discovered in 33 percent of the horses dissected and in 9.5 percent of those examined coprologically. Describes the localization of

Card 1/1

SOV/112-59-1-545

Single Phase Bridge-Rectifier Scheme in the Field Current of a Synchronous

sinusoidal voltage across the rectifier input, the synchronous-generator field winding can be replaced with a resistance equal to the DC resistance of this winding and a filter passing only the DC component of the rectifier output voltage. The validity of this assumption is confirmed by experiments conducted with various types of generators. With this assumption accepted, valve currents under various conditions have been determined, the limit conditions imposed by the valve parameters have been found, and the relationship between the field-winding direct current and the rectifier-input sinuscidal-voltage amplitude has been determined. Knowing the influence of frequency upon the field-winding resistance and time constant, the inference is drawn that in calculating currents and voltages in the bridge arms, fed by sinusoidal current, the field-winding time constant (under short-circuit conditions of the rectifier) can be taken equal to infinity.

A.A.V.

Card 2/2

S/690/61/001/000/001/003 D234/D301

AUTHOR:

Vayvars, M.P.

TITLE:

An automatic device for determining the permissible back voltage of semiconductor diodes in static regime

SOURCE:

Akademiya nauk Latviyskoy SSR. Institut elektroniki i vychislitel'noy tekhniki. Trudy, v. 1, 1961. Avtomatika i vychislitel'naya tekhnika, no. 1, 65 - 78

TEXT: Semiconductor diodes are at present sorted by observing the V-A characteristic of back voltage. The author states that this method can only be improved with the aid of an automatic device using accurately formulated criteria. If the regime is static, two criteria are found to be adequate: 1) The derivative of back current with respect to back voltage; 2) Power lost in the diode during the flow of back current. A general description and diagram of the device using these criteria are given. Transfer coefficients of separate elements of the device are determined from the equations of the latter. It is stated that the experimental sorting was carried

Card 1/2

S/690/61/001/000/001/003 An automatic device for determining ... D234/D301

out with satisfactory results, and study of errors showed that the total error in the value of permissible back voltage does not exceed $4-6\,\%$. There are 5 figures.

Card 2/2

29910

9,2150 (1159,1482)

S/548/61/000/011/007/008 E194/E455

AUTHOR:

Vayvars, M.P.

TITLE:

Equipment for automatically determining the

permissible inverse voltage of semiconductor diodes

SOURCE:

Akademiya nauk Latviyskoy SSR. Institut energetiki i

elektrotekhniki, Trudy, no,ll. Riga, 1961.

Poluprovodniki i ikh primeneniye v elektrotekhnike,

no.1. 87-93

In manufacturing semiconductor rectifier elements, it is important to sort them according to permissible inverse voltage. This sorting is now done by observing the inverse-voltage voltaampere characteristics at a given diode temperature using a cathode-ray oscillograph. The permissible voltage is considered to be that at which the volt-ampere characteristic commences to fall sharply. The method is unsatisfactory, being subjective and rather indeterminate. Accordingly, equipment was developed for automatic sorting of diodes according to strictly formulated Characteristic curves of many diodes have a clear inflection point and then there is a definite inverse-voltage at which the increase in inverse current becomes so great that even slight further increase in the voltage leads to breakdown of the Card 1/# 4

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Equipment for automatically ...

prn junction. Accordingly, a maximum permissible value of the rate of change of current with voltage can be set to define the permissible inverse-voltage. Other diodes have a gradually drooping volt-ampere characteristic with no clear inflection point; instead, the inverse current gradually increases until the power evolved causes thermal ionization and electrical breakdown of the p-n junction. In diodes with such characteristics, the maximum permissible inversemvoltage is that at which the power evolved is the maximum permissible. Accordingly, in sorting diodes, two separate criteria must be used according to their characteristics, namely the value of the rate of change of inverse turrent with inverse-voltage and secondly the power evolved in the diods when X the inverse current flows. A block circuit diagram of the new sorting equipment is shown in Fig. 3. Unit I generates a steadily increasing voltage which is applied to the circuit 2 consisting of the diode under test $/\!\!\!\!/ R$ in series with an ohmic resistance $/\!\!\!\!/ R$. The voltages on the diods and on the resistance are applied to unit 3 。 The voltages on the cutput terminals of this unit are proportional to the voltage on the diode $u_{[0]}$ and the voltage on the ohmic resistance u_R . These two voltages further pess through the differentiating unit 4 and are also applied to the Card 2/14

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Equipment for automatically end

multiplying unit 5. The voltages on the output of the differentiating unit $du_{j\bar{i}j}/dt$ and $du_{\bar{i}}/dt$ are applied to the divider unit 6. The voltage output from this unit is proportional to the rate of change of diode current with voltage. and the lamp \$\mathbb{\Pi} -1 signals that the relay has operated. other circuit, the output voltage of the multiplier unit 5. which is proportional to the power P evolved in the diode when the inverse-current passes through it, is applied to the relay 8, The signal lamp 5 -2 indicates operation of this relay. practical arrangements are such that when the starting button is pressed a gradually-rising voltage is applied to the rectifier until one or other of the relays operates. The lamp shows which of the criteria is defining the permissible inverse voltage. The equipment was used to sort germanium diodes type 🗒 🦰 🖫 10 (VG-10) and worked well, giving accurate results. Study of the errors introduced by the individual units of the equipment indicated that the error in determining the value of permissible inverse-voltage was not greater than 4 to 6%. By way of Card 3/64

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29910 S/548/61/000/011/007/008 E194/E455

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Equipment for automatically ...

illustration, Fig.5 gives ostillograms of increasing voltage on a diode and rate of change of current with voltage for a rectifier in which the characteristic has a clear inflection point. In these curves the time in seconds is plotted on the x axis and the rate of change of current with voltage on the y axis. It will be seen from the ostillogram that increasing the value of the initerion dim /dum increases the value of the permissible inverse voltage. Since the device permits automatic determination of the permissible inverse voltage of semiconductor diodes, it can be used as a component part of a sybernetic machine for automatically sorting semiconductor diodes. There are 5 figures.

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Card 4/# 4

THE CONTROL OF THE PROPERTY OF

YAKUBAYTIS, E. [Jakubaitis, E.]; VAYVARS, M. [Vaivars, M.]

Device for determining the time constant of a decaying electromagnetic process. Vestis Latv ak no.3:41-50 161.

1. Institut elektroniki i vychislitel'noy tekhniki AN Latviyskoy SSR.

YAKUBAYTIS, E. [Jakubaitis, E.] (Riga); VAYVARS, M. [Vaivars, M.] (Riga)

Device for determining time constants of an electromagnetic attenuation process. Vestis Latv ak no.3:41-50 '61. (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut elektroniki i vychislitel aoy tekhniki.

(Electromagnetism)

S/690/62/003/000/005/009 D201/D308

4.4310

AUTHOR: Vayvars, M.P.

TITLE:

Automatic determination of d.c. parameters of tran-

sistors

SOURCE:

Akademiya nauk Latviyskoy SSR. Institut elektroniki i vychislitel'noy tekhniki. Trudy, v. 3, 1962. Avtomatika i vychislitel'naya tekhnika, no. 3, 93-104

TEXT: The author describes the circuit diagrams and analyzes the operation of electronic units for the automatic determination of transistor d.c. parameters: the circuits could be used in automatic production testing. The first unit, designed for automatic determination of reverse emitter or collector junction current, consists of a d.c. amplifier as current source, two amplifiers for obtaining voltages varying as the transistor voltage and current respectively and of two further amplifiers for logic operations of comparison and control. The second unit described is for determining the transistor d.c. gain at a given collector current and emitter-t-

Card 1/2

Automatic determination ...

S/690/62/003/000/005/009 D201/D308

base voltage. The unit has three distinct parts: an integrating amplifier as a supply source, two amplifiers for producing a voltage proportional to the base current and two further amplifiers for logic comparison operations and for setting the voltages of voltage sources. The units operate in such a manner that the effect of the amplifier input current is completely eliminated, which results in an accurate evaluation of the parameters of transistor in a given configuration. The error, if any, is introduced only by the zero amplifier drift. The units can be designed using typical circuits of operational d.c. amplifiers. There are 4 figures.

Card 2/2

L 01/113-67

ACC NR: AT6019744

SOURCE CODE: UR/3192/65/000/011/0119/0132

AUTHOR: Yakubaytis, E. A.; Vayvars, M. P.; Frantsis, T. A.; Laksa, Ya. Ya.

s r B+1

ORG: none

TITLE: An automaton which determines the breakdown voltage of high-voltage power diodes

SOURCE: Akademiya nauk Latviyskoy SSR. Institut elektroniki i vychislitel'noy tekhniki. Avtomatika i vychislitel'naya tekhnika, no. 11, 1965, 119-132

TOPIC TAGS: semiconductor diode, silicon diode, dielectric breakdown, automaton

ABSTRACT: The authors describe an automaton capable of determining the breakdown voltage of diodes in the 150 to 2,000 v range and of inverse currents up to 200 ma. The paper presents the basic equations, a description of the device (a block diagram of the automaton, a diagram of the high-voltage voltage-to-binary code converter, logical scheme, decoder scheme, and automatic power and counter control diagram), and the logic of its operation. The load curves of the nonlinear block, the volt-ampere characteristic of diodes, and limiting values of voltage increments are also given. Orig. art. has: 14 formulas, 9 figures, and 4 tables.

SUB CODE: 09, 20/ SUBM DATE: Nov64/ ORIG REF: 003

ルン Card1/1

UDC: 621.382.2: 621.317-52

L 8527-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1)

ACC NR: AT5027519

SOURCE CODE: UR/2690/65/008/000/0049/0060

AUTHOR: Vayvars, M. P.

ORG: Institute of Electronics and Computer Technology, AN LatSSR, Riga (Institut elektroniki i vychislitel'noy tekhniki AN LatSSR)

TITLE: Nonlinear power unit with hyperbolic load curves

SOURCE: AN LatSSR. Institut elektroniki i vychislitel'noy tekhniki. Trudy, v. 8, 1965. Avtomatika i vychislitel'naya tekhnika, 49-60

TOPIC TAGS: semiconductor device, circuit design, nonlinear automatic control, voltage divider, voltage regulator

ABSTRACT: Nonlinear units are used for maintaining constant electrical power in elements having unknown or changing characteristics. Such a unit has a hyperbolic load curve in which the hyperbolic dependence is synthesized by sectionally linear approximation. The article presents a detailed description of the circuit diagram of a nonlinear unit built with semiconductor diodes and active resistors, and containing a common voltage divider for the generation of all reference voltages. The method for the calculation of pertinent parameters and the description of the study of the reproducibility of a particular load curve (from a family of curves) are also given. Results of the calculations show that a nonlinear unit can be designed with hyperbolic load characteristics having optimum parameters. Under optimum operating condi-

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nonlinear unit reproduces a single curve from a given family, during the transition to another curve the magnitude of the voltage divider resistors should be changed. Keeping the values of these resistors unchanged would lead to an increase in the approximation error. The expediency of using a common voltage divider was suggested by Yu. S. Karp. Orig. art. has 10 formulas, 6 figures, and 1 table.
SUB CODE: IE, EC, DP / SUBM DATE: 00 / ORIG REF: 002

L 63219-6-ENT(1)/EEC(m)/EEC(k)-2/ENA(h) ACCESSION NR: AR5005501 S/0271/64/000/012/B056/B057 681.142.621 SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel naya tekhnika. Sv. Abs. 12B324 AUTHOR: Yakubaytis, E. A., Vayvars, M. P., Frantsis, T. A. TITLE: Discrete indication of the maximum value of product of two continuous voltages CITED SOURCE: Izv. AN LatvSSR. Ser. fiz. i tekhn. n., no. 3, 1964, 77-87 TOPIC TAGS: voltage product indicator TRANSLATION: The advantages are noted of discrete indicators of two-voltages product as compared to purely analog devices. The indicator does not contain any voltage-to-code converter; it is based on the principle of determining a multiplier for the known value of the multiplicant oner transmissing making product. The voltages are determined by a current following or control of a control of the con turn-in Zener-di de viltages corresponanto various powers of D. The d. des gen switched by a chatcal of routt. A calculate of court of the given which committee design a neguines-assumably size of a tree as for medified march more charm and Card 1/2

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L 38667-66 EWT(1) ACC NR. AR6014545

AUTHOR: Vayvars, Yu.; Kokle, Yu. Skruzitis, K.

TITLE: New contactless frequency changer of

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 111163

REF SOURCE: Sb. Beskontakt. elektr. mashiny. Vyp. 4. Riga, Zinatne, 1965, 107-114

TOPIC TAGS: frequency changer, frequency converter, inductor machine

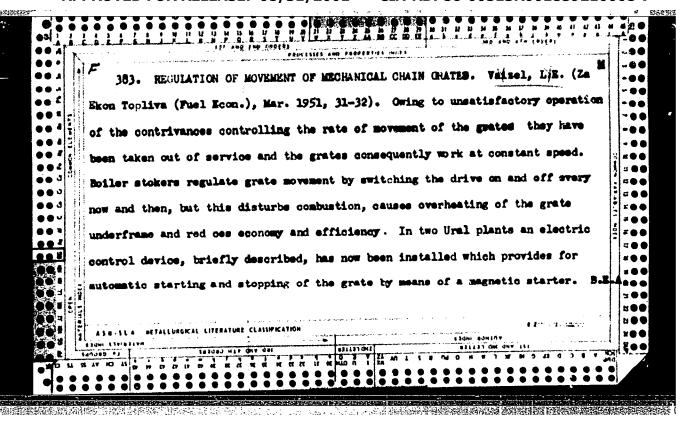
ABSTRACT: A new type of rotary contactless frequency changer was designed and built at the <u>Power-Engineering Institute</u>, <u>AN LatSSR</u>. The changer comprises two machines in one frame: a motor represented by a contactless 3-phase synchronous machine with claw-type poles and external yoke and a generator represented by a 3-phase heteropolar inductor machine with 2-tooth winding and two tooth pitches on the stator. The rated power (at the generator end) is 6.4 kw; 3000 rpm; 400/230 v; efficiency, 0.80. Nine figures. One table. Bibliography of 2 titles. G. Salgus [Translation of abstract]

SUB CODE: 09

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UDC: 621.314.261.(047.1)

SOURCE CODE: UR/0196/65/000/011/I025/I026



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	Transfer of a Mr '63.	shaft limekiln t (Limekilns)	Mazut	Stroi.mat.	9 no.3:23-25 (MIRA 16:4)

VAYVOD, R. [Vaivods, R.]

Development of the production of gypsum products in the Latvian S.S.R. Izv. AN Latv. SSR no.10:55-63 162.

(MIRA 16:1)

1. Institut ekonomiki AN Latviyskoy SSR.

(Latvia-Gypsum products)

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:	Fuel Abstracts May 1954 Natural Solid Fuels: Preparation	3454. INDERNIZATION OF TY E TEKKE PILVERIZED FIEL SEPARATOR. Valzol, L.E., Vaintskii, S.R., Gachegov, R.I. And Sladnikov, I.V. (Elekt. Sta. (Pyr Sta., Moscow), June 1953, vol. 24, 8-10). With screen R88 the efficiency of the separator was found to be high and the aerodynamic resistance low. Owing to the low velocity of the aerated dust flow the clements of the separator are subjected to little wear and tear.
		The use of the separator for ordinary and lean coal permitted an increase in mill productivity and a reduction in power consumption. B.E.A.